

**MICROPROCESSOR INCLUDING CONTROLLER  
FOR REDUCED POWER CONSUMPTION AND  
METHOD THEREFOR**

**ABSTRACT OF THE DISCLOSURE**

- 5           A microprocessor, method and signal-bearing medium for storing a  
program for executing the method, includes a microcode unit for outputting  
control signals, for each of a plurality of instructions, required by the  
microprocessor for executing the instructions. The microcode unit includes an  
instruction address input for receiving an instruction address, a control  
10       variable input for receiving a control variable corresponding to a current state  
of the microprocessor, a control signal input for receiving all of the control  
signals output by the microcode unit for an immediately preceding instruction,  
and a plurality of embedded logic circuits each dedicated for evaluating one  
unique type of instruction received by the microcode unit.